

ABSTRACT OF THE DISCLOSURE

1 A gradient domain compression system generates, from an input image having a high
2 luminance dynamic range, an output image having a lower luminance dynamic range. The system
3 comprises a gradient image generator module, a gradient compression module, and an output image
4 generator module. The gradient image generator module is configured to generate, from the input
5 image, a gradient image representing, for respective points of the input image, gradient values in the
6 luminance of the input image. The gradient compression module is configured to receive the
7 gradient image and generate a compressed range gradient image in which the range of gradient
8 values are compressed. The output image generator module is configured to receive the compressed
9 range gradient image and to generate therefrom an image, the image generated by the output image
10 generator module comprising the output image.